

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001229

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B01D53/62, C01B31/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B01D53/62, 53/14-53/18, C01B31/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2005-8478 A (Toshiba Corp.), 13 January, 2005 (13.01.05), Full text; Figs. 1 to 2 (Family: none)	6-11
X	JP 55-97227 A (Exxon Research & Engineering Co.), 24 July, 1980 (24.07.80), Claims; page 5, upper left column, line 1 to page 6, line 5; Fig. 1 (particularly, Filters 16, 17) & US 4180548 A & US 4292286 A & EP 13151 A1 & DE 2966382 A & BE 884129 A & AU 5415979 A & BR 7908473 A & CA 1124487 A	6, 9

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
16 May, 2005 (16.05.05)

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Name and mailing address of the ISA/
Japanese Patent Office

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PCT/JP2005/001229

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 4-346816 A (Mitsubishi Heavy Industries, Ltd.), 02 December, 1992 (02.12.92), Full text (Family: none)	1-11